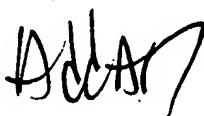


Claims

1. Balun, consisting of planar lines (1, 2, 3) coupled to each other, in which one end of a first line (1) running between a second line (2) and a third line (3) serves as unbalanced gate (5), and the other end of this first line (1) is contacted with ground (4), and one end each of the first two lines (2, 3) forms a balanced gate (6, 7), characterized by the fact that the ends of the second (2) and third (3) lines not serving as gates are capacitively coupled to each other.
2. Balun according to Claim 1, characterized by the fact that, for capacitive coupling, the ends of the second line (2) and third line (3) are connected to line sections (9, 10) that run next to each other over a stipulated length.
3. Balun according to Claim 1, characterized by the fact that, for capacitive coupling, the ends of the second line (2) and the third line (3) are connected to each other via one or more capacitors (C2, C3).
4. Balun according to Claim 1, characterized by the fact that a capacitor (C1) is connected in series to the third one (3).
5. Balun according to Claim 1, characterized by the fact that the three lines (1, 2, 3) coupled to each other have a coupling length of about one-fourth the average operating wavelength of the balun.



Translated by:

TCA-Translation Co. of America
10 West 37th Street
New York, N.Y. 10018